



ALTERNATIVE TO PTO/SB/08A/B (09/06)

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known	
				Application Number	10/590,045
				Filing Date	February 18, 2005
				First Named Inventor	Yasuo SUDA
				Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
Sheet	1	of	2	Attorney Docket Number	247322003800

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1.	US-5,955,729	09-21-1999	Nelson et al.	
	2.	US-20060030699-A1	02-09-2006	Suda et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
	3.	WO-9709608	03-13-1997	Pharmacia Biosensor AB		
	4.	JP-2002080488	03-19-2002	University of Osaka		
	5.	JP-2003083969	03-19-2003	Japan Science & Technology Corp.		
	6.	JP-2004157108	06-03-2004	Japan Science & Technology Corp. and Univ. Kagoshima		

*EXAMINER: Initial if information considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				T ²
	7.	Arano, Akio et al. "Analysis of Binding Interaction Between Glycosaminoglycans and Proteins Using Surface Plasmon Resonance," Annual Meeting Syllabus of the Japanese Society of Carbohydrate Research, volume 22, 4 pages.				
	8.	Liedberg, B. et al. (1995). "Biosensing with surface plasmon resonance-how it all started," Biosensors & Bioelectronics 10:i-ix.				
	9.	Plant, A.L. et al. (1995). "Phospholipid/Alkanethiol Bilayers for Cell-Surface Receptor Studies by Surface Plasmon Resonance," Analytical Biochemistry, 226:342-348.				
	10.	Horan, N. et al. (1999). "Nonstatistical binding of a protein to clustered carbohydrates," PNAS, 96(21):11782-11786.				
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	12.	Kideki et al. (2001). "Assembly of saccharide by multi-functional linker and application to surface plasmon resonance analysis and affinity chromatography," Tentative Lecture Proceedings, Chemical Society of Japan, volume 83, 3 pages.				
	13.	Arano, Akio et al. (2002) "Preparation of novel clustered oligosaccharide-ligand containing multi-units of heparin partial structure and its application for chip technology," The Chemical Society of Japan, the 82nd Fall Meeting, September 10, 2002, 3 pages.				
	14.	Fazio, F. et al. (2002). "Synthesis of Sugar Arrays in Microtiter Plate," J. Am. Chem. Soc., 124:14397-14402.				
	15.	Fukui, S. et al. (2002). "Oligosaccharide microarrays for high-throughput detection and				

Examiner Signature	/Shafiqul Haq/	Date Considered	11/22/2009
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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /SH/

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		specificity assignments of carbohydrate-protein interactions," Nature Biotechnology, 20:1011-1017.	
	16.	Houseman, B. et al. (2002). "Carbohydrate Arrays for the Evaluation of Protein Binding and Enzymatic Modification," Chemistry & Biology, 9:443-454.	
	17.	Wang, D. et al. (2002). "Carbohydrate microarrays for the recognition of cross-reactive molecular markers of microbes and host cells," Nature Biotechnology, 20:275-281.	
	18.	Arano, Akio et al. (2003). "Preparation of Sugar Chips Immobilized with Clustered Sulfated Oligosaccharides and their Application of Surface Plasmon Resonance," The Japanese Society of Carbohydrate Research, volume 24, 7 pages.	
	19.	Hayashi et al. (2003). "Synthesis, designed assembly and biotinylation of sulfated oligosaccharide and its application to surface plasmon resonance," Tentative Lecture Proceedings, Chemical Society of Japan, 3 pages.	
	20.	Suda, Yasuo et al. (2003). "Development of Analytical System for the Function of Oligosaccharides at Nanometer Scale," Annual Meeting Syllabus of the Japanese Society of Carbohydrate Research, volume 24, 7 pages.	
	21.	Feizi, T. et al. (2004). "Oligosaccharide microarrays to decipher the glycol code," Nature, 5:582-588.	
	22.	Kato, M. et al. (2004). "Using Model Substrates To Study the Dependence of Focal Adhesion Formation on the Affinity of Integrin-Ligand Complexes," Biochemistry, 43:2699-2707.	
	23.	Ratner, D.M. et al. (2004). "Probing Protein-Carbohydrate Interactions with Microarrays of Synthetic Oligosaccharides," ChemBioChem, 5:379-383.	
	24.	Suda, Yasuo (2004). "Sugar Chip: Novel Bio Device for Finding Out Biofunction of Oligosaccharides," Polymer Preprints, Japan, volume 52, 11 pages.	
	25.	Park, S. et al. (2004). "Carbohydrate Chips for Studying High-Throughput Carbohydrate-Protein Interactions," J. Am. Chem. Soc., 126:4812-4819.	
	26.	Karamanska, R. et al. (2005). "Thioctic acid amides: convenient tethers for achieving low nonspecific protein binding to carbohydrates presented on gold surfaces," Chem. Commun., pp. 3334-3336.	

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